

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/550,306	09/22/2005	Kiyotaka Nakabayashi	277053US6PCT	1134	
23850 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAM	EXAMINER	
			MISLEH,	MISLEH, JUSTIN P	
			ART UNIT	PAPER NUMBER	
			2622		
			NOTIFICATION DATE	DELIVERY MODE	
			01/07/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/550,306 NAKABAYASHI, KIYOTAKA Office Action Summary Examiner Art Unit JUSTIN P. MISLEH -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 - 10 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 - 10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 02 September 2008 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/550,306 Page 2

Art Unit: 2622

DETAILED ACTION

Response to Arguments

 Applicant's arguments filed September 2, 2008 have been fully considered but they are not persuasive.

 Applicant argues, "There is no luminance correction device configured to correct the luminance level of the video signals depending on the specific color luminance signal described in Yamashita. Therefore, Yamashita fails to describe the above-quoted features recited in Claim

"There is no shooting mode selection device shown in Fig. 1 or described in the associated specification description of Yamashita. Therefore, there is no description in Yamashita of correcting luminance level of the video signals on the basis of the shooting mode information selected by the shooting mode selecting as recited in independent Claims 5 and 10."

- 3. The Examiner respectfully disagrees with Applicant's position. Yamashita et al. specifically teach, as shown in figure 1, a luminance correction device (3 and 8) for correcting the luminance level of the video signals depending on the luminance level of the specific-color video signals extracted by the specific color extraction device (see column 5, line 57 column 6, line 16). Therefore, the rejection of Claim 1 will be maintained.
- 4. As for Claims 5 and 10, it has already been established that ACPA discloses a shooting mode selection device (120A) configured to select desired shooting mode information from pieces of set shooting mode information, each of the pieces of shooting mode information including information concerning a specific color determined depending on a predetermined

Art Unit: 2622

shooting condition (see Specification, page 3, lines 2 – 8) and a color correction value calculation device (130A) configured to select correction reference data corresponding to the specific color from the correction reference data storage device ("table data") on the basis of the shooting mode information selected by the shooting mode selection device (120A). Yamashita et al. was introduced to show a luminance correction device (3 and 8) for correcting the luminance level of the video signals depending on the luminance level of the specific-color video signals extracted by the specific color extraction device (see column 5, line 57 – column 6, line 16). Since, ACPA already shows the correction of video signals based on a shooting mode correction, the addition of the luminance correction device would not change that fact. Therefore, the luminance correction would also be performed on the basis of the shooting mode selection. For this reason, the rejection of Claims 5 and 10 will also be maintained.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3 6, and 8 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Conceded Prior Art (ACPA) in view of Yamashita et al. (US 5,384,601).

The Examiner considers Applicant's Conceded Prior Art to be described in the specification starting on page 7 (line 11) and concluding page 6 (line 21) and shown in figures 7 – 9D. These sections will be relied upon in the following rejections.

Art Unit: 2622

The Examiner notes apparatus Claim 5 fully encompasses the language of apparatus Claim 1. Furthermore, the Examiner notes Claims 1 and 10 are corresponding apparatus and method claims, respectively. For these reasons, Claims 1, 5, and 10 will be rejected together using the language of Claim 5.

- For Claims 1, 5, and 10, ACPA discloses, as shown in figures 7 9D, an imaging apparatus comprising:
- a shooting mode selection device (120A) configured to select desired shooting mode information from pieces of set shooting mode information, each of the pieces of shooting mode information including information concerning a specific color determined depending on a predetermined shooting condition (see page 3, lines 2 8);
- a specific color extraction device (106A) configured to extract video signals of a specific color from video signals (R,G,B) on the basis of the shooting mode information selected by the shooting mode selection device (see page 3, line 25 page 4, line 6);
- a color difference detection device (109A) configured to detect color difference data of the video signals;
- a correction reference data storage device ("table data") configured to store pieces of correction reference data, serving as references for correcting the specific color to a predetermined color (see page 4, line 25 page 5, lines 18);
- a color correction value calculation device (130A) configured to select correction reference data corresponding to the specific color from the correction reference data storage device ("table data") on the basis of the shooting mode information selected by the shooting mode selection device (120A) to calculate color correction values on the basis of the selected

Art Unit: 2622

correction reference data, the color correction values being used to correct the specific color to the predetermined color (see page 4, line 25 – page 5, line 18); and

a color correction device (110A) configured to correct the specific color in the video signals to the predetermined color on the basis of the color correction values calculated by the color correction value calculation device (see page 5, line 25 – page 6, line 21).

However, ACPA prior art is silent with respect to a color difference detection device for detecting color difference data of the specific color from the specific-color video signals extracted by the specific color extraction device and calculating the color correction values on the additional basis of the color difference data of the specific color detected by the color difference detection device. Furthermore, ACPA does not disclose a luminance correction device for correcting the luminance level of the video signals depending on the luminance level of the specific-color video signals extracted by the specific color extraction device and on the basis of the shooting mode information selected by the shooting mode selection device.

On other hand, Yamashita et al. also disclose imaging apparatus for correcting color signals. More specifically, Yamashita et al. teach, as shown in figure 1, a correcting color portion of an imaging apparatus, including a color space converter (1) for generating color difference signals of input video signals, an area setting device (4) for extracting a specific color from the color difference signals, a weighting coefficient setting device (6) for establishing a correction weighting for each color in the specific color range extracted, a luminance value setting device (3), and a calculator (7 and 8) for calculating correction values for the original color difference signals on the basis of the color difference signals for the specific color (see figures 3a, 3b, and 4 and column 5, line 16 – column 6, line 68 for support). Moreover,

Art Unit: 2622

Yamashita et al. specifically teach, as shown in figure 1, a luminance correction device (3 and 8) for correcting the luminance level of the video signals depending on the luminance level of the specific-color video signals extracted by the specific color extraction device (see column 5, line 57 – column 6, line 16).

Therefore, Yamashita et al. teach a color difference detection device for detecting color difference data of the specific color from the specific-color video signals extracted by the specific color extraction device and calculating the color correction values on the additional basis of the color difference data of the specific color detected by the color difference detection device and a luminance correction device for correcting the luminance level of the video signals depending on the luminance level of the specific color video signals extracted by the specific color extraction device, as claimed.

According to Yamashita et al., an advantage of the invention is to provide: a color adjustment apparatus with "a simple circuit construction and high processing speed enabling real-time processing of an input video signal" (see column 2, line 67 - column 3, line 3), and a color adjustment apparatus that can "automatically and correctly shift the reference chromaticity value and the reference luminance value irrespective of the offset direction of the input chromaticity signal to the reference chromaticity value, and the degree of this shift can be determined freely by the weighting coefficient setting device" (see column 4, lines 13 – 21).

Therefore, the Examiner submits, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to have incorporated the color processing apparatus, including the color difference detection device, the luminance correction device, and calculating the color correction values on the additional basis of the color difference data of the specific

Art Unit: 2622

color detected by the color difference detection device, as taught by Yamashita et al. in the imaging apparatus disclosed by ACPA.

- 8. As for Claims 3 and 8, ACPA discloses, as shown in figure 7, wherein the correction reference data storage device is a table memory. The Examiner submits a "table memory" has a function capable of changing the stored correction reference data.
- 9. As for Claims 4 and 9, ACPA further discloses, as stated on page 3 (lines 2 8), wherein the shooting mode selection device (120A) has a function of automatically selecting the shooting mode information depending on a shooting environment.
- 10. As for Claim 6, Yamashita et al. further teach, as shown in figures 1 and 6, wherein the luminance correction device (3 and 8) has a function of calculating the ratio of the specific-color video signals to the video signals to correct the luminance level of the specific-color video signals in accordance with the calculated ratio (see column 7, line 64 column 8, line 35).
- 11. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Conceded Prior Art (ACPA) in view of Yamashita et al. (US 5,384,601), as applied to Claims 1 and 5 above, in further view of Sakamoto (US 6,332,036 B1).
- 12. As for Claims 2 and 7, neither ACPA nor Yamashita et al. further teach wherein the specific color extraction device has a function of changing an extraction range of the specific-color video signals depending on the luminance level of the video signals.

On the other hand, Sakamoto also disclose an apparatus and method for color extraction.

More specifically, Sakamoto teach, as shown in figurers 1, 2, and 4, where the color extraction apparatus includes the color tables management block (13) that searches tables based on the input luminance signal and outputs to the color area comparison block (14), an area signal

Art Unit: 2622

indicating reference color areas that are assumed for the eight colors when the input luminance signal is input (see column 4, lines 14 – 19). Therefore, Sakamoto teaches wherein the specific color extraction device has a function of changing an extraction range of the specific-color video signals depending on the luminance level of the video signals.

According to Sakamoto, an advantage of the present invention is to "provide a color extraction apparatus and method which can not only reduce the load of a signal processing device for image processing but also increase the extendability of a color model to thereby enable high-speed, simultaneous extraction of multiple colors by using a more flexible model" (see column 1, lines 42 – 47).

Thus, the Examiner submits, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to have included wherein the specific color extraction device has a function of changing an extraction range of the specific-color video signals depending on the luminance level of the video signals as taught by Sakamoto in the imaging apparatus taught in-combination by ACPA in view of Yamashita et al.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Art Unit: 2622

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

14. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Justin P Misleh whose telephone number is 571.272.7313. The Examiner can normally be reached on Monday through Friday from 8:00 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, David Ometz can be reached on 571.272.7593. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Justin P. Misleh/ Primary Examiner Group Art Unit 2622 January 6, 2009